



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference YL03011PCT FG	OR FURTHER ACTION	SeeNotificationofTransmittaloff Examination Report (Form PCT	
	ernational filing date(day/mont.	h/year) Priority date (da	
International Patent Classification (IPC) or na IPC7 C05F 11/00  Applicant	ational classification and IPC		
This international preliminary examin and is transmitted to the applicant according to the according to the applicant according to the according to the applicant according to the applicant according to the applicant according to the applicant according to the acc		d by this International Prelimin	ary Examining Authority
2. This REPORT consists of a total of  This report is also accompanied amended and are the basis for th 70.16 and Section 607 of the Ad  These annexes consist of a total of	5 sheets, including the sheets of the sheets of the sheets contains the sheet contains th	the description, claims and/or d	
3. This report contains indications relating I X Basis of the report II Priority III Non-establishment of op Lack of unity of invention V X Reasoned statement und citations and explanation VI Certain documents cited VII Certain defects in the interpretations.	ng to the following items:  inion with regard to novelty, in on  ler Article 35(2) with regard to as supporting such statement	nventive step and industrial appl	•
Date of submission of the demand  04 DECEMBER 2003 (04)		completion of this report  13 JANUARY 2005 (13.01.2)	
Name and mailing address of the IPEA/KR  Korean Intellectual Property Off 920 Dunsan-dong, Seo-gu, Daejo Republic of Korea  Facsimile No. 82-42-472-7140	Authorice eon 302-701, B	ized officer YUN, Sang Hyun one No. 82-42-481-5566	HAIGH.

I.	Basis	of the report	
1.	With	regard to the elements of the international application:*	
	X	the international application as originally filed	
		the description:	
		pages	, as originally filed , filed with the demand
		pages, filed with the letter of	, med with the demand
		the claims:	
	Ш	pages	, as originally filed
		pages , as amended (together with any pages	statment) under Article 19 , filed with the demand
		pages, filed with the letter of	·
		the drawings:	
		pages	
		pages	, filed with the demand
	$\Box$	the sequence listing part of the description:	
	Ш	pages	, as originally filed
		pages	, filed with the demand
		pages, filed with the letter of	
2.	the i	regard to the language, all the elements marked above were available or furnished to this Authoriternational application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language Englise the language of a translation furnished for the purposes of international search (under Rule 23. the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination or 55.3).	which is 1(b)).
3.		th regard to any <b>nucleotide</b> and/or amino acid sequence disclosed in the international appli liminary examination was carried out on the basis of the sequence listing:	cation, the international
		contained inthe international application in written form.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority in written form.	
	$\Box$	furnished subsequently to this Authority in computer readable form	
		The statement that the subsequently furnished written sequence listing does not go bey international applicationas as filed has been furinshed.	ond the disc losure in the
		The statement that the information recorded in computer readable form is identical to the w been furnished.	ritten sequence listing has
4.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the description, pages the claims, Nos.	
		the drawings, sheets	
5.			
		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	they have been considered to
*	in thi	acement sheets which have been furnished to the receiving Office in response to an invitation und s opinion as "originally filed." and are not annexed to this report since they do not contain 70.17).	
**	' Any i	replacement sheet containing such amendments must be referred to under item I and annexed to	this report.



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II. Prior	ity
1.	This opinion has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
	copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1).
Thus for	the purpose of this opinion, the international filing date indicated above is considered to be the relevant date.
3. Addi	tional observations, if neccessary:
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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application,
claims Nos.
because:
the said international application, or the said claims Nos relate to the following subject matter which does not require an international preliminary examination (specify):
thedescription, claims or drawings (indicate particular elements below) or said claims Nos.
are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nosare so inadequately supported by the description that no meaningful opinion could be formed.
l
no international search report has been established for said claims Nos.
<ol> <li>A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:</li> </ol>
the written form has not been furnished or does not comply with the standard.
the computer readable form has not been furnished or does not comply with the standard.

1. In response to the invitation to restrict or pay additional fees the applicant has:  restricted the claims. paid additional fees. paid additional fees under protest. neither restricted nor paid additional fees.  This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:  3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is complied with. not complied with for the following reasons:
paid additional fees.  paid additional fees under protest.  neither restricted nor paid additional fees.  This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:  This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is  complied with.
paid additional fees under protest.  neither restricted nor paid additional fees.  This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:  This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is complied with.
neither restricted nor paid additional fees.  This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:  This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is complied with.
<ol> <li>This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:</li> <li>This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is complied with.</li> </ol>
to invite the applicant to restrict or pay additional fees:  3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is  complied with.
complied with.
not complied with for the following reasons:
4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:
all parts.
the parts relating to claims Nos.

V. I	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial ap	plicability;
•	citations and explanations supporting such statement	

Statement			
Novelty (N)	Claims	1-10	YES YES
	Claims	477 1975	NO
Inventive step (IS)	Claims	10	YES
	Claims	1-9	NO
Industrial applicability (IA)	Claims _	1-10	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: JP 5-877 A

The present invention relates to a method for manufacturing a wood chip capsule, a method for controlling dissolving-out velocity of fertilizer, pesticide or plant growth regulator from the wood chip capsule, a wood chip capsule manufactured by the method, a method of using the wood chip capsule and an apparatus for manufacturing the wood chip capsule.

D1 discloses a method for producing ligneous manure and the constitution of the method as follows:

The predetermined amount of wood chips is loaded in a vessel. The mixed liquid of microorganisms (such as bacillus and clostridium) and nutritive substance for growing the microorganisms is introduced to the vessel. Then air is drawn from the insides of the wood chips by a pressure reducing machine and the mixed liquid is immersed in the wood chips by a pressurizing machine. After the wood chips are fermented, fertilizer component (nitrogen, phosphate and potassium), organic fertilizer or inorganic fertilizer is immersed in the fermented wood chips. Then the wood chips are dried to obtain ligneous manure.

(See supplemental box.)



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VI. Certa	ain documents cited						
1. Certain published documents (Rule 70.10)							
	Application No. Patent No.	Publication (day/month/		Filing d (day/month	ate n/year)	Priority date (day/mo	(valid claim) nth/year)
2. Non-v	written disclosures (Rule	70.9)					
	Kind of non-written di	sclosure		-written disclos	ure	Date of written referring to non-wi	itten disclosure

II. Certain defects in the international application	
The following defects in the form or contents of the international application have been noted:	

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V	III. Certain observations on the international application			
The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are supported by the description, are made:				
	Claims 1-9 are not fully supported by the description (PCT Art. 6) as follows:  All examples only describes the permeation of fertilizer and no example suggests the permeation of pesticide and plant growth regulator into a wood chip by pressurization or immersion in the description.			

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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PCT/KR2003/001744

Supplemental Box	Supp	lemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box V

The subject matter of claims 1-3 in the present invention relates to a method for manufacturing a wood chip capsule, which comprises the steps of:

(a) manufacturing a wood chip, (b) drying naturally to 10 ~ 40% water content, (c) permeating more than one selected from the group consisting of fertilizer, pesticide and plant growth regulator into the wood chip by pressurizing or immersing.

#### 1. Novelty

The subject matter of claims 1-3 differs in permeating fertilizer, pesticide or plant growth regulator in comparison with D1, which teaches a method for producing ligneous manure by immersing microorganisms into a wood chip. Therefore, The subject matter of claims 1-3 is considered to be novel under PCT Article 33(2).

Also, the subject matter of claims 4-7 (a method for controlling dissolving-out velocity of fertilizer, pesticide or plant growth regulator from the wood chip capsule), claim 8 (a wood chip capsule manufactured by the method), claim 9 (a using method for the wood chip capsule) and claim 10 (an apparatus for manufacturing the wood chip capsule) is considered to be novel under PCT Article 33(2).

#### 2. Inventive step

But it is obvious for one skilled in the art to apply teaching of D1 (a method related to immersing fertilizer component (nitrogen, phosphate and potassium), organic fertilizer or inorganic fertilizer into a wood chip), thus, to arrive at the subject matter of claims 1-3 (a method related to permeating fertilizer, pesticide or plant growth regulator) without exercising inventive skill.

Therefore, The subject matter of claims 1-3 does not involve an inventive step under PCT Article 33(3). Similarly, the subject matter of claims 4-9 does not involve an inventive step under PCT Article 33(3).

#### 3. Industrial applicability

Industrial applicability of the subject matter of claims 1-10 is beyond a doubt.

# INTERNATIONAL PRESENTINARY EXAMINATION REPORT

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